# Author index


Abumrad, N.N., see Van Voorhis, K. (978) 51
Altibelli, A., see Sautereau, A.M. (978) 276
Au, K.S., Lee, M.F. and Siu, Y.L.
$Ca^{2+}$-mediated activation of human erythrocyte membrane $Ca^{2+}$-ATPase (978) 197

Bacic, G., see Ma, L.D. (978) 283
Beaugé, L., see DiPolo, R. (978) 328
Bentrup, F.-W., see Gogarten, J.P. (978) 43
Benz, R., see Ludwig, O. (978) 319
Bertho, P., Moreau, P., Juguelin, H., Gautier, M. and Cassagne, C.
Monensin-induced accumulation of neosynthesized lipids and fatty acids in a Golgi fraction prepared from etiolated leek seedlings (978) 91
Betermier, M., see Sautereau, A.M. (978) 276
Bidet, M., see Merot, J. (978) 134
Blaskó, K., see Schagina, L.V. (978) 145
Bodo, B., see Hajji, M.E. (978) 97
Braun, H.P. and Vogel, M.
Wave-guide spectroscopy on planar lipid bilayers doped with hydrophobic ions (978) 223
Brieland, J.K., Vissers, M.C.M., Phan, S.H. and Fantone, J.C.
Human platelets mediate iron release from transferrin by adenine nucleotide-dependent and -independent mechanisms (978) 191
Büldt, G., see Fimmel, S. (978) 231

Cassagne, C., see Bertho, P. (978) 91
Chapman, D., see Villalain, J. (978) 305
Choli, T., see Fimmel, S. (978) 231
Coppens, A., see Middelkoop, E. (978) 241

De Kruijff, B., see Killian, J.A. (978) 341
Delrot, S., see Gallet, O. (978) 56
Delrot, S., see Lemoine, R. (978) 65
Dencher, N.A., see Fimmel, S. (978) 231
DiPolo, R., Beaugé, L. and Rojas, H.
In dialyzed squid axons $Ca_i^{2+}$ activates $Ca_o^{2+}$–$Na_i^+$ and $Na_o^+$–$Na_i^+$ exchanges in the absence of Ca chelating agents (978) 328
Dixit, R.R., see Lala, A.K. (978) 333
Donoso, P. and Hidalgo, C.
Sodium–calcium exchange in transverse tubules isolated from frog skeletal muscle (978) 8
Dunn, F., see Ma, L.D. (978) 283

Ellar, D.J., see Haider, M.Z. (978) 216
Elliott, A.A., Elliott, J.R. and Haydon, D.A.
The effects of homologous series of anaesthetics on a resting potassium conductance of the squid giant axon (978) 337
Elliott, J.R., see Elliott, A.A. (978) 337
Esmann, M., Hankovszky, H.O., Hideg, K. and Marsh, D.
A novel spin-label for study of membrane protein rotational diffusion using saturation transfer electron spin resonance. Application to selectively labelled Class I and Class II -SH groups of the shark rectal gland $Na^+/K^+$-ATPase (978) 209

Fantone, J.C., see Brieland, J.K. (978) 191
Fehlau, R., Grygorczyk, R., Fuhrmann, G.F. and Schwarz, W.
Modulation of the $Ca^{2+}$- or $Pb^{2+}$-activated $K^+$-selective channels in human red cells. II. Parallelisms to modulation of the activity of a membrane-bound oxidoreductase (978) 37
Fehlau, R., see Schwarz, W. (978) 32
Fimmel, A.L. and Fordham, S.A.
The $F_1F_0$-ATPase of *Escherichia coli*. The substitution of alanine by tyrosine at position 25 in the *c*-subunit affects function but not assembly (978) 299
Fimmel, S., Choli, T., Dencher, N.A., Büldt, G. and Wittmann-Liebold, B.
Topography of surface-exposed amino acids in the membrane protein bacteriorhodopsin determined by proteolysis and microsequencing (978) 231
Fordham, S.A., see Fimmel, A.L. (978) 299
Francis, S.E., see Hutchinson, F.J. (978) 17
Frati, L., see Pavan, A. (978) 158
Fritzsch, G., Rumrich, G. and Ullrich, K.J.
Anion transport through the contraluminal cell membrane of renal proximal tubule. The influence of hydrophobicity and molecular charge distribution on the inhibitory activity of organic anions (978) 249
Fuhrmann, G.F., see Fehlau, R. (978) 37
Fuhrmann, G.F., see Schwarz, W. (978) 32
Fujiwara, A., see Kudo, Y. (978) 313

Gallet, O., Lemoine, R., Larsson, C. and Delrot, S.
The sucrose carrier of the plant plasma membrane. I. Differential affinity labeling (978) 56
Gallet, O., see Lemoine, R. (978) 65
Ganapathy, V., see Miyamoto, Y. (978) 25
Gautier, M., see Bertho, P. (978) 91
Ghishan, F.K., see Van Voorhis, K. (978) 51
Ginsburg, H., see Nissani, E. (978) 293
Gogarten, J.P. and Bentrup, F.-W.
The electrogenic proton/hexose carrier in the plasmalemma of *Chenopodium rubrum* suspension cells: effects of $\Delta c$, $\Delta$pH and $\Delta\psi$ on hexose exchange diffusion (978) 43
Gomez-Fernandez, J.C., see Villalain, J. (978) 305
Grinfeldt, A.E., see Schagina, L.V. (978) 145
Grygorczyk, R., see Fehlau, R. (978) 37

Haider, M.Z. and Ellar, D.J.
Mechanism of action of *Bacillus thuringiensis* insecticidal δ-endotoxin: interaction with phospholipid vesicles (978) 216
Hajji, M.E., Rebuffat, S., Le Doan, T., Klein, G., Satre, M. and Bodo, B.
Interaction of trichorzianines A and B with model membranes and with the amoeba *Dictyostelium* (978) 97
Hampp, R., see Mehrle, W. (978) 267
Hanano, M., see Yachi, K. (978) 1
Hankovszky, H.O., see Esmann, M. (978) 209
Haydon, D.A., see Elliott, A.A. (978) 337
Hermetter, A., Rainer, B., Ivessa, E., Kalb, E., Loidl, J., Roscher, A. and Paltauf, F.
Influence of plasmalogen deficiency on membrane fluidity of human skin fibroblasts: a fluorescence anisotropy study (978) 151
Hidalgo, C., see Donoso, P. (978) 8
Hideg, K., see Esmann, M. (978) 209

Hilgenfeld, R., see Müller-Fahrnow, A. (978) 176
Horák, J., see Sychrová, H. (978) 203
Hutchinson, F.J., Francis, S.E., Lyle, I.G. and Jones, M.N.
The characterisation of liposomes with covalently attached proteins (978) 17

Iga, T., see Yachi, K. (978) 1
Ikeda, Y., see Yachi, K. (978) 1
Ivessa, E., see Hermetter, A. (978) 151

Jackson, M., see Villalain, J. (978) 305
Jaroni, H.-W., see Jopski, B. (978) 79
Jones, M.N., see Hutchinson, F.J. (978) 17
Jopski, B., Pirkl, V., Jaroni, H.-W., Schubert, R. and Schmidt, K.-H.
Preparation of hemoglobin-containing liposomes using octyl glucoside and octyltetraoxyethylene (978) 79
Juguelin, H., see Bertho, P. (978) 91

Kalb, E., see Hermetter, A. (978) 151
Kawasaki, T., see Kudo, Y. (978) 313
Keim, H., see Schwarz, W. (978) 32
Killian, J.A., Prasad, K.U., Urry, D.W. and De Kruijff, B.
A mismatch between the length of gramicidin and the lipid acyl chains is a prerequisite for $H_{II}$ phase formation in phosphatidylcholine model membranes (978) 341
Klein, G., see Hajji, M.E. (978) 97
Kojima, T., see Souzu, H. (978) 112
Koppaka, V., see Lala, A.K. (978) 333
Korchev, Y.E., see Schagina, L.V. (978) 145
Kotyk, A., see Sychrová, H. (978) 203
Kristensen, B.I. and Kristensen, P.
Characterization of $Ca^{2+}$-binding proteins from Ehrlich ascites tumor cell cytoplasm and their binding to membranes (978) 72
Kristensen, P., see Kristensen, B.I. (978) 72
Kudo, Y., Urabe, T., Fujiwara, A., Yamada, K. and Kawasaki, T.
Carrier-mediated uptake system for cephalexin in human placental brush-border membrane vesicles (978) 313
Kumai, K., see Tomita, T. (978) 185

Lala, A.K., Dixit, R.R. and Koppaka, V.
Depth-dependent photolabelling of membrane hydrophobic core with 9-diazofluorene-2-butyric acid (978) 333
Larsson, C., see Gallet, O. (978) 56
Larsson, C., see Lemoine, R. (978) 65
Le Doan, T., see Hajji, M.E. (978) 97
Lee, M.F., see Au, K.S. (978) 197
Leibach, F.H., see Miyamoto, Y. (978) 25
Le Maout, S., see Merot, J. (978) 134
Lemoine, R., Delrot, S., Gallet, O. and Larsson, C.
The sucrose carrier of the plant plasma membrane. II. Immunological characterization (978) 65
Lemoine, R., see Gallet, O. (978) 56
Lev, A.A., see Schagina, L.V. (978) 145
Levinson, C., see Smith, T.C. (978) 169
Llanillo, M., see Middelkoop, E. (978) 241
Loidl, J., see Hermetter, A. (978) 151
Lubin, B.H., see Middelkoop, E. (978) 241
Ludwig, O., Benz, R. and Schultz, J.E.
Porin of *Paramecium* mitochondria isolation, characterization and ion selectivity of the closed state (978) 319
Lyle, I.G., see Hutchinson, F.J. (978) 17

Ma, L.D., Magin, R.L., Bacic, G. and Dunn, F.
The effects of $^2H_2O$ on the phase transition of large unilamellar vesicle (LUV) suspensions as detected by ultrasound spectroscopy and electron spin resonance (978) 283
Magin, R.L., see Ma, L.D. (978) 283
Mancini, P., see Pavan, A. (978) 158
Marsh, D., see Esmann, M. (978) 209
Mehrle, W., Hampp, R. and Zimmermann, U.
Electric pulse induced membrane permeabilisation. Spatial orientation and kinetics of solute efflux in freely suspended and dielectrophoretically aligned plant mesophyll protoplasts (978) 267
Merot, J., Bidet, M., Le Maout, S., Tauc, M. and Poujeol, P.
Two types of $K^+$ channels in the apical membrane of rabbit proximal tubule in primary culture (978) 134
Middelkoop, E., Coppens, A., Llanillo, M., Van der Hoek, E.E., Slotboom, A.J., Lubin, B.H., Op den Kamp, J.A.F., Van Deenen, L.L.M. and Roelofsen, B.
Aminophospholipid translocase in the plasma membrane of Friend erythroleukemic cells can induce an asymmetric topology for phosphatidylserine but not for phosphatidylethanolamine (978) 241
Miyamoto, Y., Tiruppathi, C., Ganapathy, V. and Leibach, F.H.
Involvement of thiol groups in the function of the dipeptide/proton cotransport system in rabbit renal brush-border membrane vesicles (978) 25
Moreau, P., see Bertho, P. (978) 91
Müller-Fahrnow, A., Hilgenfeld, R., Pflügl, G. and Saenger, W.
Crystal structure of a small amphiphilic compound: heptane-1,2,3-triol (978) 176

Nissani, E. and Ginsburg, H.
Protonophoric effects of antimalarial drugs and alkylamines in *Escherichia coli* membranes (978) 293

Op den Kamp, J.A.F., see Middelkoop, E. (978) 241

Paltauf, F., see Hermetter, A. (978) 151
Pavan, A., Mancini, P., Frati, L., Torrisi, M.R. and Pinto da Silva, P.
Molecular cytochemistry of CD3 and CD4 antigens in human lymphocytes as studied by label-fracture and by fracture-label (978) 158
Pflügl, G., see Müller-Fahrnow, A. (978) 176
Phan, S.H., see Brieland, J.K. (978) 191
Pinto da Silva, P., see Pavan, A. (978) 158
Pirkl, V., see Jopski, B. (978) 79
Poujeol, P., see Merot, J. (978) 134
Poznansky, M.J., see Thomas, P.D. (978) 85
Prasad, K.U., see Killian, J.A. (978) 341

Rainer, B., see Hermetter, A. (978) 151
Rebuffat, S., see Hajji, M.E. (978) 97
Robello, M.
Dependence of the conductance of the $\alpha$-latrotoxin channel on applied potential and potassium concentration (978) 179
Roelofsen, B., see Middelkoop, E. (978) 241
Rojas, H., see DiPolo, R. (978) 328
Roos, W.
Kinetic properties, nutrient-dependent regulation and energy coupling of amino-acid transport systems in *Penicillium cyclopium* (978) 119
Roscher, A., see Hermetter, A. (978) 151
Rumrich, G., see Fritzsch, G. (978) 249

Saenger, W., see Müller-Fahrnow, A. (978) 176
Said, H.M., see Van Voorhis, K. (978) 51
Sato, M., see Souzu, H. (978) 112
Satre, M., see Hajji, M.E. (978) 97
Sautereau, A.M., Betermier, M., Altibelli, A. and Tocanne, J.F.
Adsorption of the cationic antitumoral drug Celiptium to phosphatidylglycerol in membrane model systems. Effect on membrane electrical properties (978) 276
Sawada, Y., see Yachi, K. (978) 1

Schagina, L.V., Blaskó, K., Grinfeldt, A.E., Korchev, Y.E. and Lev, A.A.
Cholesterol-dependent gramicidin A channel inactivation in red blood cell membranes and lipid bilayer membranes (978) 145
Schmidt, K.-H., see Jopski, B. (978) 79
Schubert, R., see Jopski, B. (978) 79
Schultz, J.E., see Ludwig, O. (978) 319
Schwarz, W., Keim, H., Fehlau, R. and Fuhrmann, G.F.
Modulation of the $Ca^{2+}$- or $Pb^{2+}$-activated $K^+$-selective channels in human red cells. I. Effects of propranolol (978) 32
Schwarz, W., see Fehlau, R. (978) 37
Siu, Y.L., see Au, K.S. (978) 197
Slotboom, A.J., see Middelkoop, E. (978) 241
Smith, T.C. and Levinson, C.
Quinine inhibits multiple $Na^+$ and $K^+$ transport mechanisms in Ehrlich ascites tumor cells (978) 169
Souzu, H., Sato, M. and Kojima, T.
Changes in chemical structure and function in *Escherichia coli* cell membranes caused by freeze-thawing. II. Membrane lipid state and response of cells to dehydration (978) 112
Souzu, H.
Changes in chemical structure and function in *Escherichia coli* cell membranes caused by freeze-thawing. I. Change of lipid state in bilayer vesicles and in the original membrane fragments depending on rate of freezing (978) 105
Sugiyama, Y., see Yachi, K. (978) 1
Sychrová, H., Horák, J. and Kotyk, A.
Transport of L-lysine in the fission yeast *Schizosaccharomyces pombe* (978) 203

Tadakuma, T., see Tomita, T. (978) 185
Takahashi, T., see Tomita, T. (978) 185
Tauc, M., see Merot, J. (978) 134
Thomas, P.D. and Poznansky, M.J.
Curvature and composition-dependent lipid asymmetry in phosphatidylcholine vesicles containing phosphatidylethanolamine and gangliosides (978) 85
Tiruppathi, C., see Miyamoto, Y. (978) 25
Tocanne, J.F., see Sautereau, A.M. (978) 276
Toda, G., see Yachi, K. (978) 1
Tomita, T., Watanabe, M., Takahashi, T., Kumai, K., Tadakuma, T. and Yasuda, T.
Temperature-sensitive release of adriamycin, an amphiphilic antitumor agent, from dipalmitoylphosphatidylcholine-cholesterol liposomes (978) 185
Torrisi, M.R., see Pavan, A. (978) 158

Ullrich, K.J., see Fritzsch, G. (978) 249
Urabe, T., see Kudo, Y. (978) 313
Urry, D.W., see Killian, J.A. (978) 341

Van Deenen, L.L.M., see Middelkoop, E. (978) 241
Van der Hoek, E.E., see Middelkoop, E. (978) 241
Van Voorhis, K., Said, H.M., Ghishan, F.K. and Abumrad, N.N.
Transport of glutamine in rat intestinal brush-border membrane vesicles (978) 51
Villalain, J., Gomez-Fernandez, J.C., Jackson, M. and Chapman, D.
Fourier transform infrared spectroscopic studies on the secondary structure of the $Ca^{2+}$-ATPase of sarcoplasmic reticulum (978) 305
Vissers, M.C.M., see Brieland, J.K. (978) 191
Vogel, M., see Braun, H.P. (978) 223

Watanabe, M., see Tomita, T. (978) 185
Wheeler, C.P.D. and Yudilevich, D.L.
Lysine and alanine transport in the perfused guinea-pig placenta (978) 257
Wittmann-Liebold, B., see Fimmel, S. (978) 231

Yachi, K., Sugiyama, Y., Sawada, Y., Iga, T., Ikeda, Y., Toda, G. and Hanano, M.
Characterization of Rose Bengal binding to sinusoidal and bile canalicular plasma membrane from rat liver (978) 1
Yamada, K., see Kudo, Y. (978) 313
Yasuda, T., see Tomita, T. (978) 185
Yudilevich, D.L., see Wheeler, C.P.D. (978) 257

Zimmermann, U., see Mehrle, W. (978) 267